

State telecommunications management manual

State of California
Department of General Services

Telecommunications Division
Sacramento, California

Category:

**Telecommunications
Systems & Services**

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**CALNET Data
Services**

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TD Services

INTRODUCTION

There are four main data network services offered by CALNET:

- Frame Relay,
- Dedicated Data,
- Time Division Multiplexed, and
- Switched 56 Kb.

Contact CALNET Client Services for assistance in assessing agency data service needs.

FRAME RELAY SERVICE

Frame Relay is a new high speed statistically multiplexed data service that allows for the transfer of variable length frames across a wide geographical area. It is a form of packet switching but uses smaller packets, in this case, frames, to more efficiently handle high speed, bursty data. Frame Relay is a virtual circuit switched service utilizing statistically shared facilities and intelligent work stations such as personal computers. Frames travel at high speed through virtual connections from the source to the desired destination. Frame Relay currently supports medium speed (i.e., 56Kbps to 1.536Mbps) data communications. Frame Relay Service allows end users to share network resources. Each individual access link and Frame Relay port can be shared by traffic to multiple destinations.

Two primary applications for Frame Relay are:

- Local Area Network, LAN-to-LAN communications for PCs, workstations, file servers, and possibly minicomputer and mainframe access, and
- Upgrades for existing terminal-to-host (i.e., IBM 3270-type) networks.

Through a joint partnership arrangement, CALNET provides transport via high quality fiber optic digital trunks and Pacific Bell supplies the local access and frame relay switching.

Availability

This service is available statewide to state, county, city and other eligible local government entities.

Rates

Contact your Pacific Bell Account Team for current rates. Pacific Bell will bill agencies directly for Frame Relay Services including the use of the CALNET transport.

Ordering Procedures

Submit orders directly to your Pacific Bell Account Team. Note: If service is to be installed in a CALDEX building, access to equipment rooms, cable pair assignments, and cabling and wire pair cross-connect work must be coordinated with TD's authorized MAC technicians. Submit the following necessary documents to the Client Service Center:

- A copy of the original STD 20 form requesting Frame Relay Service. See ***Chapter 0799.0, Telecommunications Systems & Services Forms Index***.
- A STD 20 form requesting cabling and wiring work to be performed, if applicable.
- A floor plan if "Request Consultation" is checked. The TD offers engineering consultations to help determine cabling and wiring requirements.

DEDICATED DATA SERVICE

A dedicated data circuit is a direct channel specifically dedicated to a customer's use between specified points. Dedicated Data service utilizes dedicated point-to-point circuits that accommodate high volume secure data traffic 24 hours a day. They may be sized from a single line to a full T-1. Protected Private Line Service is also available for critical data needs through an alternate routing system for data traffic.

Availability

The previously stated CALNET availability is also applicable here.

Rates

Monthly rates depend on the speed, end points, type of transport — whether commercial or premium grade — and other factors such as local loop charges. Obtain current rates from CALNET Client Services.

Ordering Procedures

Complete a STD. 20 form requesting Dedicated Data Services and send it to the Client Service Center. See ***Chapter 0799.0, Telecommunications Systems & Services Forms Index***.

TIME DIVISION MULTIPLEXED SERVICE

This service is based on providing customers with the reliability of point-to-point service along with the economies of a shared service. Many users will share the same line without

compromising security or performance. This is accomplished through a method of time division multiplexing.

Availability

The previously stated CALNET availability is also applicable here.

Rates

Monthly rates depend on the location and speed of the service and other factors such as local loop charges. Obtain current rates from CALNET Client Services.

Ordering Procedures

Complete a STD. 20 form requesting Time Division Multiplexed Services and send it to the Client Service Center. See ***Chapter 0799.0, Telecommunications Systems & Services Forms Index***.

SWITCHED 56 KB SERVICE

This service uses 56 kilobytes of bandwidth on demand. This allows agencies a pay-per-usage rate in order to perform data transfer such as file transfers or videoconferencing. The local exchange carrier (LEC) supplies connectivity to the switched 56 Kb line and CALNET provides InterLATA service.

Availability

The previously stated CALNET availability is also applicable here with one exception. The availability of this service is based on the switching equipment providing local line service access. Contact the LEC or Competitive Access Provider (CAP) for specific service availability.

Rates

Contact CALNET Client Services for current rates.

Ordering Procedures

Submit a STD. 20 form requesting Switched 56 Kb service and send it to the Client Service Center. Coordinate orders with the LEC. See ***Chapter 0799.0, Telecommunications Systems & Services Forms Index***.

See Chapter 0101.0, TD Reference Guide, for all TD contact information referenced within this chapter.